

هذه من لاجل

# Jordan Times

An independent Arab political daily published by the Jordanian Press Foundation

جوردان تايمز يومية سياسية مستقلة عن المؤسسة الصحفية الأردنية "الرأي"

## Today's Weather

It will be fair, with medium and high clouds. Winds will be northwesterly moderate. In Aqaba, winds will be northerly moderate and seas calm.

	Overnight	Daytime
Amman	Low 12	High 25
Aqaba	19	35
Deserts	11	30
Jordan Valley	15	32

Yesterday's high temperatures: Amman 24. Aqaba 35. Sunset tonight: 6:15 p.m. Sunrise tomorrow: 4:51 a.m.

## In today's Jordan Times...

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AMMAN, TUESDAY APRIL 28, 1981 — JUMADA AL THANI 24, 1401

Price: Jordan 100 fils; Syria 1 pound; Lebanon 1 pound; Saudi Arabia 1.50 riyals; UAE 1.50 dirhams; Great Britain 25 pence

## Firm stand on UNRWA praised



AMMAN, April 27 (J.T.) — The government was bed today for its firm stand against proposed changes in UNRWA's educational programmes at the annual meeting of the National Consultative Council. NCC member Muhammad Al Azzeh (thanked government on behalf of employees of the UNRWA) said the UNRWA's educational programmes at the annual meeting of the National Consultative Council. NCC member Muhammad Al Azzeh (thanked government on behalf of employees of the UNRWA) said the UNRWA's educational programmes at the annual meeting of the National Consultative Council.

# Israeli jets pound Lebanon

BEIRUT, April 27 (Agencies) — Waves of Israeli fighter-bombers raided Lebanon's southern port cities of Sidon and Tyre today in the second straight day of air assaults against Palestinian strongholds. First reports spoke of 40 casualties in Sidon and scores in Tyre.

Syrian troops and Lebanese rightists in Beirut locked in a fresh round of mid-city artillery and rocket warfare that set buildings ablaze on both sides of Beirut's "Green Line." "We haven't been able to take an accurate stock of the losses or casualties, but certainly they are pretty enough," said a spokesman for the Palestine Liberation Organisation in Beirut.

13 jets in dogfights with Israel since the summer of 1979, when Damascus resolved to confront aerial Israeli operations against Lebanon-based commandos.

Syrian shelling. As the planes struck, the rightist "Voice of Lebanon" radio station in Beirut said Syrian multiple rocket launchers, known as "Stalin's organs," pounded residential neighbourhoods three kilometres deep in the rightist sector and around the port of Jounieh, 19 kilometres north of Beirut.

Syrian MIG downed. A mystery developed over yesterday's crash of a Syrian air force jet fighter during Israel's air strikes in the Sidon area. Syria said the plane was hit in a dogfight with Israeli jets of which two were shot down. Israel said there was no air battle and all Israeli planes returned safely to base.

The interest of Lebanon's government centred today on a two-day visit Syrian Foreign Minister Abdul Halim Khaddam plans to begin to Beirut tomorrow. A government spokesman said Mr. Khaddam's talks would concentrate in the first day on ways of proclaiming a lasting ceasefire. Mr. Khaddam is due to have talks with Mr. Pierre Gemayel, head of the Falangist Party, the largest rightist grouping in Lebanon whose militia has been doing most of the fighting against the Syrians in Beirut and elsewhere.

## Appeal from a prison cell

Mr. Ziyad Abu 'Ein, the Palestinian held in detention in the United States pending a decision on whether to extradite him to Israel on a bombing charge, has sent a message to Mr. Shuhair Al Majali, the secretary general of the General Federation of Jordanian Trade Unions, and federation members congratulating them on International Labour Day and thanking them for the great efforts they are making to help him and secure his free return home.

## Washington alarmed by fresh strife

WASHINGTON, April 27 (A.P.) — The State Department said today it views "with deep concern" the recent outbreak of fighting in Lebanon and said the taking of new positions by Syrian troops in central Lebanon is one of the "serious developments that concern us."

## Agnew told to pay state \$248, 735

ANNAPOLIS, Maryland, April 27 (A.P.) — Former U.S. Vice-President Spiro Agnew was ordered today to pay the state of Maryland \$248, 735, a sum the judge said represented money Mr. Agnew allegedly accepted as kickbacks while governor of Maryland.

## Leaders on the move Qadhafi in Moscow, Schmidt in Saudi Arabia

MOSCOW, April 27 (A.P.) — Libyan leader Col. Muammar Qadhafi and top Soviet leaders today began talks here that are expected to include bilateral political and military cooperation.



Muammar Qadhafi

Col. Qadhafi, grinning, wearing a military uniform and carrying a swagger stick, was met at the airport by Soviet President Leonid Brezhnev and Foreign Minister Andrei Gromyko, who welcomed the Libyan leader with a kiss.

Mr. Brezhnev led the Soviet delegation to the talks, which opened in the Kremlin five hours after Col. Qadhafi's midday arrival.

Col. Qadhafi's schedule for tomorrow included a trip to an unspecified military installation and time for signing joint agreements. He was scheduled to depart Wednesday.

A TASS article on Col. Qadhafi's visit noted that trade between the two nations grew by 23.3 million rubles (\$33 million) last year to 450.9 million rubles (\$636 million) under an existing treaty, but gave no hint what new agreements, if any, the Libyan leader might sign during his visit.

Col. Qadhafi arrived here from Sofia, where he discussed bilateral trade and political issues with Bulgarian President Todor Zhivkov during a one-day stopover.

Last October, the Kremlin signed a 20-year friendship treaty with Syria that called for strengthening military cooperation between the two countries.

## 1 killed in Tehran battles; students tried in Frankfurt

TEHRAN, April 27 (R) — Street battles broke out on the fringes of a mass demonstration in Tehran today, and hospital sources said at least one man was shot dead and four were wounded.

As clashes continued in neighbouring streets, the main body of the rally moved to hear speeches at the home of the late Ayatollah Mahmoud Taleghani, spiritual leader of the Mujahideen.

Meanwhile ten Iranian students went on trial in Frankfurt, West Germany today, charged with illegally imprisoning and threatening five compatriots they had accused of working for the former Shah's secret police.

The court was told that the students kidnapped the five men in Frankfurt in July, 1979, put them before a self-styled revolutionary tribunal, took away their passports and held them prisoner in a student hall of residence.

He said arms supplies and military facilities for the Soviet Union in Libya might be discussed. The Libyan leader has denied air and naval facilities to Moscow so far.

In the past six years, according to Western analysts, the Soviet Union has provided Libya with billions of dollars in arms, including some of its most sophisticated tanks and planes. There are an estimated 2,000 Soviet advisers in Libya to help teach how to use them.

Col. Qadhafi's visit to Moscow comes just three days after U.S. Secretary of State Alexander Haig repeated the Reagan administration's allegations that the Kremlin is behind an international terrorist movement with links to Libya.

TASS yesterday again denied Mr. Haig's charge, characterising it as "groundless."

The importance of the visit in terms of future development in the Middle East was underscored by yesterday's reported meeting in the Libyan capital of Tripoli between Col. Qadhafi and Palestine Liberation Organisation Chairman Yasser Arafat.

A communique issued Saturday after a two-day visit to Moscow by the Kuwaiti foreign minister focused heavily on a proposal for an international conference on the Middle East at which the PLO would be granted full status.

RIYADH, April 27 (Agencies) — West German Chancellor Helmut Schmidt was greeted by Crown Prince Fahd at the airport here today before being swept away to a dinner given at the royal palace and his first of two days of talks with King Khaled and other top Saudi officials. He is to visit the United Arab Emirates later this week.

Mr. Schmidt, accompanied by Economics Minister Otto Lamsdorf, made the trip following a week of heated debate on whether West German arms should be sold to the desert kingdom, one of West Germany's major oil suppliers.

The chancellor was escorted into the palace under the protection of colourfully dressed national guardsmen, decked in their traditional bedouin costumes complete with sabres and carbines.

Mr. Schmidt and Mr. Lamsdorf are expected to meet tomorrow with Prince Fahd, Minister of Finance and National Economy Sheikh Mohammad Abu Al Khail and Oil Minister Sheikh Ahmad Zaki Yamani to discuss the strengthening of Saudi-German business relations, the Middle East situation and the flow of oil from the Gulf states.

Mr. Schmidt's trip to Riyadh comes less than a week after the U.S. administration announced it wants to sell the Saudis five sophisticated radar reconnaissance planes and equipment to improve the firepower and range of the Saudi's 62 modern F-15 jet fighter planes.

The sale has yet to receive approval from Congress. With German exports to Saudi Arabia stagnating while oil bills are rocketing, German industry fears business with Riyadh might suffer severely if Mr. Schmidt's government does not allow controversial sales of tanks and other weapons to the Saudis.

But in a German television interview last night, the chancellor made clear he did not wish the possibility of arms sales to become the central issue of his talks in Riyadh.

"The Germans are not quite aware yet that outside the North Atlantic alliance Saudi Arabia has become our most important political and economic partner over the past few years," Mr. Schmidt said.

He said it was not his impression that Riyadh regarded arms sales as a central issue in bilateral relations or a precondition for expanding economic and political cooperation.

Whatever the outcome of the arms issue, Mr. Schmidt is keen not to upset Riyadh which, according to official figures, holds at least 13.6 billion marks (\$6.3 billion) of German federal government loans.

Bilateral trade rose to 14.2 billion marks (\$6.6 billion) last year, from 8.7 billion marks (\$4.0 billion) in 1979. But Bonn's deficit increased dramatically.

## French atomic workers return to Baghdad plant

PARIS, April 27 (R) — French nuclear physicists and technicians have returned to Iraq to resume work on a controversial atomic reactor after a six-month halt due to the Gulf war, French foreign ministry officials said today.

The officials said most of the 300 Frenchmen involved in the project had returned to Iraq without their families and work was going on normally.

All but a dozen volunteers were hurriedly repatriated to France after two Phantom jets with Iranian markings bombed the reactor site near Baghdad last Sept. 30, soon after the Iran-Iraq war began.

The multi-billion-dollar French nuclear reactor deal with Iraq has been criticised at home and abroad, particularly in the United States and Israel, which fears that the Iraqis might be able to build an atomic bomb.

## 000-3,000 killed Ethiopian air raids, bel spokesman says

ADISHU, April 27 (R) — A spokesman for guerrillas fighting them Ethiopia today quoted refugees as saying that between 2,000 and 3,000 people were killed or injured last month in three of air strikes by Ethiopian fighter-bombers.

wegian missionaries arriving here said they had been forced to flee the area near the south Ethiopian village of Gata Warancha as of Ethiopian attacks.

spokesman for the Oromo Liberation Front (OLF) said that the OLF said that the OLF spokesman said two squadrons from the Ethiopian air force used bombs, napalm and other chemicals in the area and that most of those killed or injured were women, children and the elderly.

OLF spokesman said the Ethiopian forces were now in control of the region which had been deserted by most of the 20,000 refugees fleeing the attacks had begun to arrive in Somalia.

OLF is one of the least well-known guerrilla groups opposing the Ethiopian government. There have been reports of sporadic fighting in southern Ethiopia but the largest secessionist movements are in the east Oromia, Eritrea and Tigray in the north.

Oromos are Ethiopia's largest single ethnic group, comprising about 40 per cent of the population. They have traditionally been dominated by the central Amharic tribe.

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The court was told that the students kidnapped the five men in Frankfurt in July, 1979, put them before a self-styled revolutionary tribunal, took away their passports and held them prisoner in a student hall of residence.

Police freed the five after receiving an anonymous tip. The case is likely to last several weeks.

## Nonstop strafing

Associated Press reporter Edmond Shehid said by telephone from Sidon the city was shaking from one end to other as Palestinian positions to the north, east and south were struck.

## 31 killed in Tehran battles; students tried in Frankfurt

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# NATIONAL

'Trend' towards PLO recognition

## Hussein receives S. Korean aide

AMMAN, April 27 (Agencies) — His Majesty King Hussein received at noon today visiting South Korean Minister of Construction Jonam Kim, who conveyed to the

King a message from the President of South Korea dealing with the strengthening of relations and cooperation between the two countries.

The meeting was attended by South Korean Ambassador in Amman Jin Chull Soh. Mr. Kim said today there were trends in his country towards recognising the Palestine Liberation Organisation (PLO) officially, sources said. Mr. Kim reaffirmed South Korea's support for the PLO as the sole representative of the Palestinian people. He said: "The Korean government is taking a trend now to recognise this organisation officially."

Hassan yesterday in the presence of Minister of Public Works Awni Al Masri and Mr. Jin. Discussion dealt with cooperation between the two countries in construction, and the possibility of South Korea participating in the implementation of projects included in the new five-year economic plan. The South Korean minister earlier called on Prime Minister Mudar Badran to discuss bilateral cooperation. He also met with the Minister of Transport Ali Suheimat and Minister of Public Works Awni Al Masri for talks on construction projects currently being implemented in Jordan by South Korean firms.



Crown Prince Hassan cuts the ribbon on the Jordan Lime and Silicate Brick Industries factory on Monday.

## Prince Hassan opens brick factory

AMMAN, April 27 (Petra) — His Royal Highness Crown Prince Hassan opened at Abu Nusair district west of Amman today the Jordan Lime and Silicate Brick Industries Company factory.

In a speech on the occasion, the Crown Prince underlined the importance of such local industries which will produce materials for comparatively low prices and contribute to construction and development projects in Jordan. He paid tribute to specialised Jordanian institutions such as the Housing Bank which help in the establishment of such industries.

Also speaking at the opening ceremony was the chairman and board director of the Housing Bank, Mr. Zuhair Khouri. He said that the factory will use locally produced raw materials such as sand and limestone, found in abundance in Jordan, to produce building materials.

The building of the factory was the result of joint efforts on the part of the Housing Bank, the Industrial Development Bank, the Pension Fund, the Royal Scientific Society, the Arab African Bank, Jordanian citizens and other institutions. Mr. Khouri said.

Later, Prince Hassan unveiled a commemorative plaque, officially inaugurating the factory, and toured its various sections.

The estimated initial annual productive capacity of the factory will be 56,000 tonnes, of which Iraq alone has signed contracts to buy 12,000 tonnes annually.

## Arabsat meet starts today

AMMAN, April 27 (Petra) — The annual meeting of the General Assembly of the Arab Satellite Communications Organisation (Arabsat), at the level of the Arab communications ministers, will here on Tuesday under the patronage of His Majesty King Hussein. Arabsat Director General Dr. Ali Al Mashat praised the role made by the Jordanian government in supporting the Arab Sat project.

In a statement to Petra, Dr. Mashat said that the conference will concentrate on several important questions, including the raising of Arabsat capital to cope with the project's rising cost, and a decision on awarding of the contract for the satellite's construction.

## Mineral resources conference to discuss mining technology

AMMAN, April 27 (J.T.) — Jordan will submit a working paper on technicians' training and technological methods in mining to the fourth Arab Conference on Mineral Resources due to open here on Wednesday, according to Mr. Ahmad Dakhqan, vice president of the Natural Resources Authority (NRA).

alternative source of energy petroleum.

The recommendations issued at the end of the seminar also on Arab states to exchange expertise in oil shale exploitation for the investment of more funds in prospecting for shale coal.

He told Al Ra'i newspaper that the working paper will call for coordination among Arab states in the absorption of technology and the employment of technical methods in the exploitation and application of minerals.

The seminar also recommends that Arab states prepare feasibility studies on joint Arabian prospecting and exploitation projects, and called for the holding of specialised seminars to discuss the use of nuclear fuel

The working paper also deals with the training of staff capable of handling mining projects in the Arab World, he said. It offers a suitable site in Jordan for an Arab institute to turn out skilled technicians for this purpose.

## Pakistani pilgrims to get special passport

AMMAN, April 27 (Petra) — Pakistani pilgrims living in Jordan can obtain special passports from their embassy in Amman for the purpose of forming the pilgrimage Mecca this year, the Ministry of Awqaf and Islamic Affairs announced here today.

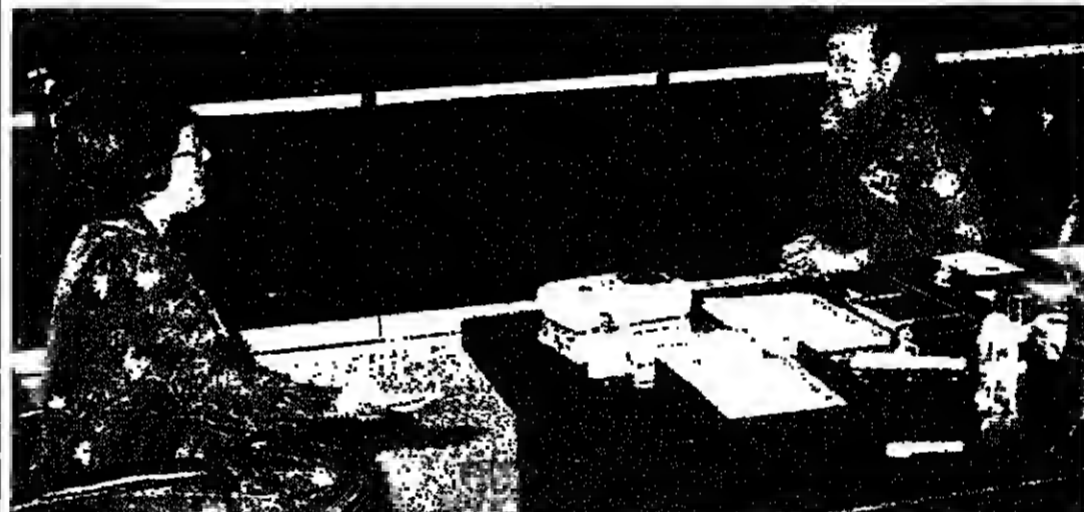
The third Arab Conference on Mineral Resources, held in Rabat, discussed the idea of establishing such an institute.

The main working paper before the conference, Mr. Dakhqan said, deals with a general Arab strategy on mineral resources, to be based on the concept of achieving Arab economic integration. This paper has been prepared by the Arab Organisation for Industrial Development, he said.

It said that it had received a note from the Pakistani embassy to this effect, which asked that only holders of special passports be granted visas to go to Mecca. The ministry has expressed willingness to cooperate with the embassy in this respect.

Meanwhile, a two-day seminar on solid energy-producing minerals ended here last night with a call by the participants for joint Arab efforts to pursue exploration for oil shale to produce oil as an

## Sharif Zaid meets Palestinian charity chief



AMMAN, April 27 (Petra) — The commander-in-chief of the Jordanian armed forces, Lt. Gen. Sharif Zaid Ibn Shaker, received at his office today Mrs. Sarah Barakat, the director of workshop for the training of girls in the occupied West Bank and Gaza Strip. Sharif Zaid accepted a token gift made

at the workshops, carrying the emblems of the Jordanian armed forces and some of its formation. The commander-in-chief also presented Mrs. Barakat with a token gift and a cheque for JD 1,000 to support her charitable society.

AMMAN STOCK EXCHANGE REPORT					
Name of Company	Par Value	Number Traded	High	Low	Closing Price
Islamic Bank 50%	JD 1,000	9,445	1,680	1,670	1,670
Jordan-Kuwait Bank	JD 1,000	12,486	2,260	2,240	2,260
Jordan-Gulf Bank	JD 1,000	10,186	1,520	1,510	1,510
Housing Bank	JD 1,000	2,606	2,190	2,170	2,170
Jordan National Bank	JD 5,000	32,465	17,000	16,500	16,500
Bank of Jordan	JD 5,000	15,894	17,000	16,500	17,000
Coast Amman Bank	JD 5,000	6,363	15,150	15,150	15,150
Arab Bank Co. Ltd.	JD 10,000	1,330	133,000	133,000	133,000
Arab Union Insurance Co.	JD 1,000	453	1,530	1,500	1,530
Al Ezzihar Insurance Co.	JD 1,000	1,837	2,450	2,450	2,450
General Insurance Co.	JD 1,000	9,625	1,800	1,750	1,750
Arabian Seas Insurance Co.	JD 5,000	2,890	11,600	11,550	11,550
Jordan Electricity Co.	JD 1,000	6,300	2,080	2,070	2,080
Arab International Hotels Co.	JD 1,000	10,226	1,050	1,020	1,040
Arabian Investment and International Trading Co.	JD 1,000	27,230	1,350	1,260	1,260
International Contracting and Investments Co.	JD 1,000	46,217	0,940	0,930	0,940
Livestock and Poultry Co.	JD 1,000	5,070	0,650	0,640	0,650
Dar Al Shifa' for Press, Publications and Distribution	JD 1,000	1,968	0,960	0,960	0,960
Garage Owners Federation Office Co.	JD 1,000	2,100	10,000	10,000	10,000
Arab Development and Investments Co.	JD 2,000	755	1,550	1,550	1,550
Jordan Dairy Co.	JD 1,000	45,530	1,300	1,290	1,290
General Mining Co.	JD 1,000	6,555	1,900	1,850	1,850
Arab Aluminium Industries Co.	JD 1,000	39,771	1,580	1,560	1,560
Arab Paper Processing and Trading Co.	JD 1,000	120	0,800	0,800	0,800
Industrial, Commercial and Agricultural Co.	JD 1,000	5,652	3,930	3,900	3,930
Arab Chemical Detergents Industries Co.	JD 1,000	7,365	4,910	4,910	4,910
National Steel Industries	JD 1,000	38,985	2,380	2,320	2,320
Dar Al Dawaa' Development and Investment Co.	JD 1,000	3,314	3,320	3,300	3,300
Jordan Ceramics Industries Co.	JD 1,000	1,782	1,150	1,150	1,150
Jordan Glass Factories Co.	JD 1,000	619	0,840	0,840	0,840
Jordan Paper and Cardboard Factories Co.	JD 1,000	1,650	1,650	1,650	1,650
Jordan Phosphate Mines Co.	JD 1,000	9,108	3,770	3,700	3,750
Jordan Lime and Silicate Brick Industries Co.	JD 5,000	46,492	6,250	6,000	6,250
Jordan Tobacco and Cigarettes Co.	JD 5,000	490	9,800	9,800	9,800
Jordan Training Co.	JD 5,000	487	9,750	9,750	9,750
Arab Pharmaceutical Manufacturing Co.	JD 5,000	745	29,800	29,800	29,800
Jordan Petroleum Refinery Co.	JD 5,000	7,621	8,450	8,440	8,440
Jordan Pipes Manufacturing Co.	JD 10,000	387	15,500	15,500	15,500
Jordan Cement Factories	JD 10,000	12,295	18,680	18,600	18,600

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### Jordan imports should get top priority in Aqaba trucking-panel

AMMAN, April 27 (J.T.) — A recommendation by a joint committee of representatives of the public and private sectors calls on owners of lorries transporting goods from Aqaba to give priority to imported goods for Jordanian merchants.

The trucks should first carry products to Jordanian importers from Aqaba Port before similar consignments can be carried to importers in neighbouring Arab states, the committee said.

The committee is made up of representatives of the Ministry of Transport, the Seaports Corporation, the Traffic Department, the Amman Chamber of Commerce, the union of garage owners and the association of Jordanian truck owners.

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### WHAT'S GOING ON

**Exhibitions**

"The Age of Shakespeare" exhibition is open to all, as from today. The British Council is presenting a special programme of readings and scenes from Shakespeare, lectures, solo performances and music related to the exhibition. The exhibition employs pictures, photographs, slides, music, models and costumes to explore the way of life of the late 16th-century Englishman. The exhibition is open from 9 a.m. - 1 p.m. and from p.m. - 7 p.m., at the council in Jabal Amman.

The Soviet Cultural Centre presents an exhibition on the Soviet Socialist Republic of Azerbaijan. The exhibition opens at 6 p.m. and will be followed by a lecture by the director of the centre, D. Olman Arasy, at 6:30 p.m., at the centre near Third Circle Jabal Amman.

Yarmouk University presents an exhibition of architectural books. On display are books written by professors on the staff of the university's Faculty of Engineering, at the university's exhibition hall.

The Harvard Semitic Museum, in cooperation with the Department of Antiquities, presents an exhibition of Middle Eastern "Photographs from the Last Century", at the Holiday Inn hotel in Aqaba.

The Natural Resources Authority presents a geological exhibition on mineral resources in Jordan at the Holiday Inn hotel in Amman. On display are samples of minerals and ores, and industrial products made from these raw materials.

**Lecture**

Yarmouk University presents a lecture entitled "Arabic and Islamic Studies in the West", by Dr. Waleed Arafat, director of the Arabic and Islamic Studies Centre at Lancaster University in Britain. The lecture will be given at 3:30 p.m., in the university cafeteria building.

**Videotape programme**

The American Centre presents a videotape summary of CB television news for the past week. The tape will be shown at noon and 4 p.m., at the centre's auditorium, off Third Circle in Jabal Amman.

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هنا من اجل

Crime laboratory applies science to the chase after wrongdoers

# Modern-day Sherlocks use high technology

By Mohammad Ayish  
Special to the Jordan Times

AMMAN, April 27 — When the crime laboratory at the Public Security Directorate was established in 1966, there were only three people to work at its humble technical facilities. But the crime lab of 1981 bears no resemblance to that of some 15 years ago.

Not only has the lab contributed to the unravelling of many intricate crimes, but it has also become a place of training in crime techniques for people from Arab countries. The number of criminal cases in Jordan has been limited in the 15 years, but the expansion of the society has required a parallel development of the lab to meet new demands, an official at the crime investigation department told the Jordan Times. The crime lab consists of several specialised branches responsible for fingerprints, documents, chemical tests, biological tests and firearms.

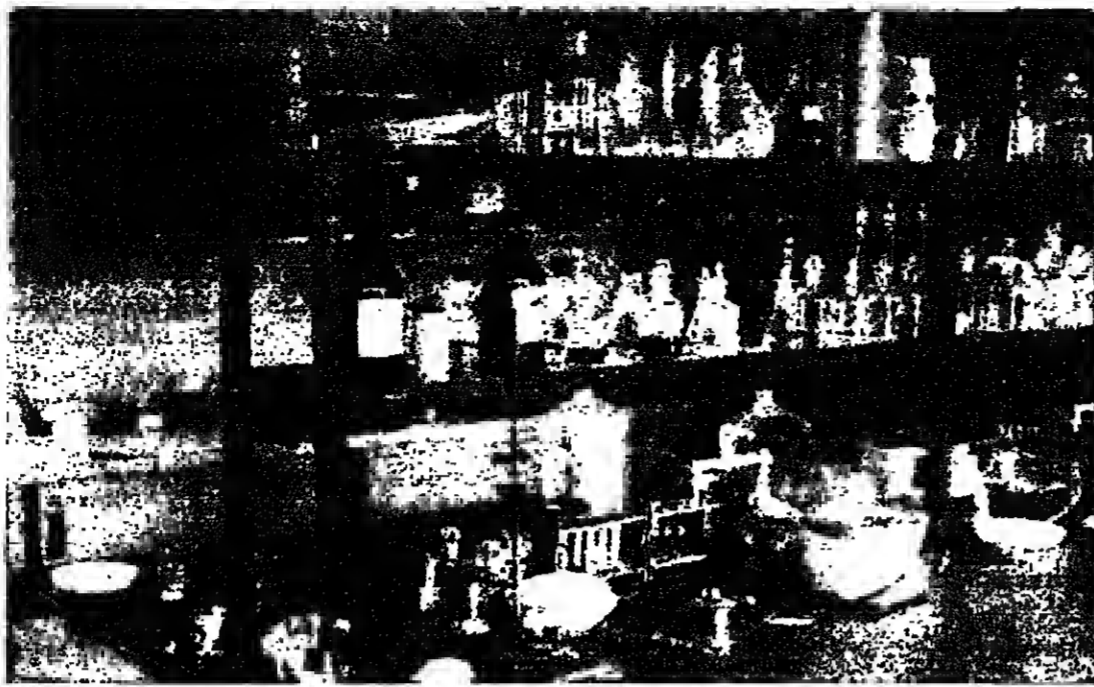
The fingerprint section here branches in Public Security throughout the country, Hassan Smadi, head of the fingerprint section, said. "It consists of two parts: the ten-print branch and the one-print branch." The former, he told the Jordan Times, fingerprint experts take the prints of all of a person's fingers, to be kept in special files for reference. "When we take the fingerprints we take into consideration whether a suspect has been convicted or not," Capt. Smadi said.

But when fingerprint experts rush to a crime scene, they don't have the convenience and clarity available in lab tests, he said. So in such a situation, the experts will use the one-fingerprint method to compare the remnants of a print with the print of a suspect.

In handling these important clues, the experts rely on the lab's technical facilities; but far more importantly, on training and intelligence. Fingerprint experts use several techniques to uncover prints or fragments of prints that can help uncover a criminal. Capt. Smadi cited the use of chemical powder, gelatin and special magnifying cameras.

"Our situation here is very satisfactory and we are looking forward to using a computer in our filing work," he said. A microfilm file is already being used but not on a full-scale level. It contains material from cases in Jordan dating back to 1923.

Fingerprints are far from being the only means the lab has of uncovering crimes. Another is the detection of some of the sophisticated methods used in illegal acts. "Some people may use falsified signatures to get access to money or anything else they want. To ordinary people, such forgery



The chemical section looks just like any pharmacist's lab—until you read the labels on the materials analysed.

is not detectable, said Capt. Sami Halase, head of the documents section at the lab. Referring to a sample document, he said: "This number, seen by the naked eye, looks like a six. But when magnified, it is not six any more; it is revealed to be a five."

Experts at Capt. Halase's section can pinpoint the type of distortion or falsification used on any document with the aid of magnifying cameras. But the job needs great intelligence, experience, intuition and diligence, he said.

Besides detecting scraped-out or altered sections in documents, experts also can determine whether currencies—both coins and bills—are genuine. Capt. Halase

said that through the use of ultraviolet light, experts can also identify secret writing that is usually not detectable by the naked eye. Even individual typewriters can be distinguished through their writing by this method.

"The common thing about all those things is that the forger never tries to relax and act normally when he commits his act, though it may appear to him that he can delude the police," Capt. Halase said. The forger's lack of assurance in falsifying a signature leaves telltale signs which are immediately visible under a microscope, he said.

The crime lab's ballistics section works to identify firearms used in crimes by matching them with their cartridges and bullets. Lt. Sate Shrayha, head of the section, told the Jordan Times that the firearms experts' first step is to examine the weapon if it has been used or not. Then the weapon will be cleaned with special chemicals, to be followed by a test-firing in order to obtain an empty cartridge and a bullet for comparison with the ones whose origin is in question.

Cartridges and bullets are compared to see if they match. "When we compare both pieces, we set each of them under one of these lenses in such a way that both would appear as if they are one piece," Lt. Shrayha said, pointing to a magnifying system with a viewer.

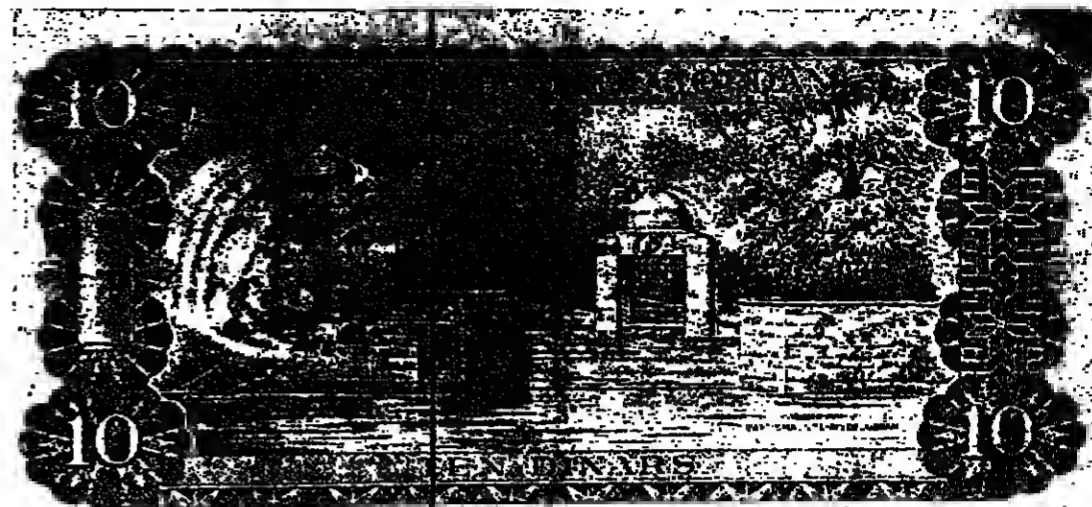
Another section at the crime lab is the chemical analysis section one of whose duties is to uncover poisonous materials and determine their nature. "Most of the cases we receive here come from the Ministry of Health or from the University of Jordan Hospital," said Capt. Matrouk Al Hababeh, the head of the section. After an

autopsy is performed on the body of a crime victim, the lab will receive samples to be tested: blood or urine, as well as body parts.

The chemical analysis section also examines broken glass in cases where it is important to determine from which side a window was broken, according to Capt. Hababeh. "We also have continued contacts with the Traffic Department on hit-and-run accidents in which police have no evidence but a tiny amount of car paint," he said. "By examining the paint, we can determine the type and identity of the car." The Traffic Department and the chemical analysis section also cooperate in blood testing to screen out drunken drivers.

Closely related to the chemical analysis section is that for biological analysis. Lt. Suzan Janakat, who works there, said tests carried out at her section determine blood type, and whether the liquid is human or animal blood. Biological analysis can also determine parentage and identity when the parentage of a child is not clear, she said.

Cases of sexual assault also find



Ultraviolet light reveals the difference between the genuine (above) and the counterfeit (below) banknotes.



their way into the biological analysis section, so that it may determine if any sexual contact has taken place between the two parties involved, and what its effects are. But the laboratory's sections owe their success not only to the skill of their staff, but to the photography department as well.

"We are involved with all the sections in the crime lab," said Capt. Fakhri Iskander, assistant head of the photography section. Each team of crime lab experts includes a photographer who is intelligent enough to relate the scene of the crime to its sur-

roundings and establish some sort of relationship, he said.

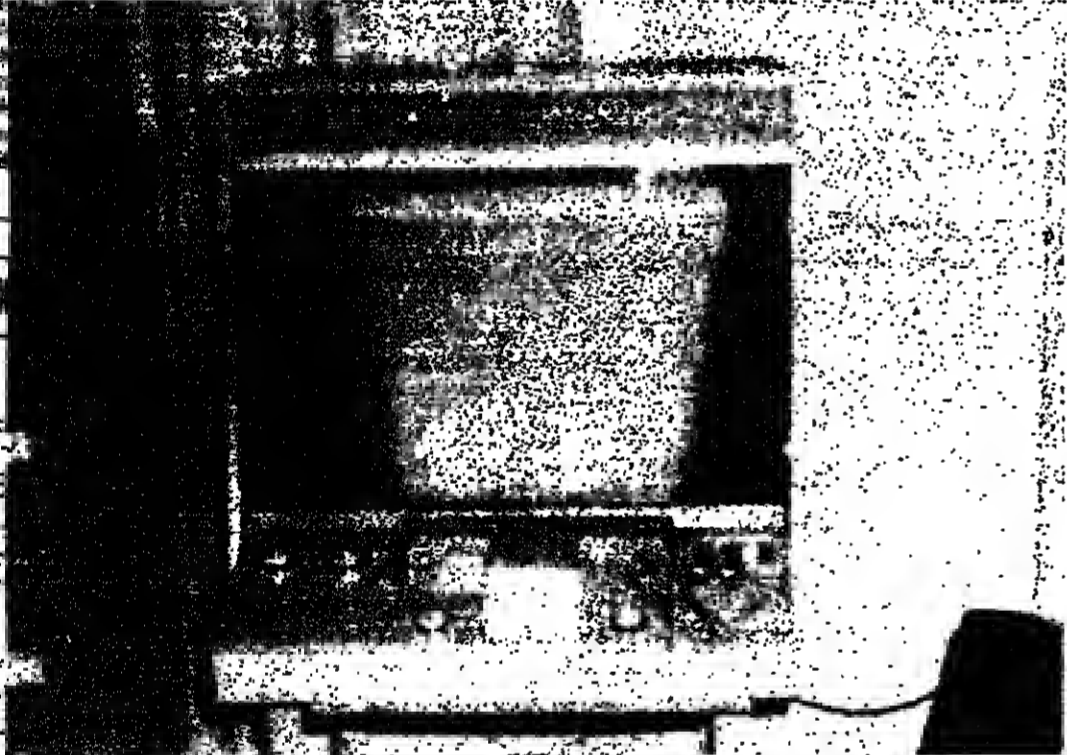
Fingerprints are photographed before they are removed so the photographs can be used as evidence in case the prints are tampered with. Footprints are also photographed by crime lab photographers, who must place a ruler alongside the imprint of the foot so that it will be easy to compare the size of the print in the picture with the foot of a suspect.

Besides field work, photographers also do lab work along with the other sections, particularly the document and fin-

gerprint sections.

"That requires the photographer to be acquainted with the functions of the other sections, so that he may do his job more effectively," Capt. Iskander said.

The expansion of the crime lab is related to the growth in the country's crime rate in the past 10 years. But officials at the lab say the relationship is not necessarily direct, since the lab is not involved with all the crimes taking place. A look at the number of cases handled and the number of tests performed in the lab in the past four years shows a dramatic increase.



High-magnification screen is used to examine fingerprints.

Jordan Crime Laboratory: Cases handled and tests performed, 1977-80

	1977		1978			1979		1980	
	Case	Test	Case	Test		Case	Test	Case	Test
Documents	162	390	96	444	Documents	115	645	149	436
Firearms	93	510	85	691	Firearms	101	677	130	844
Poisons	60	174	95	423	Poisons	97	305	220	413
Seminal fluids	33	83	95	136	Seminal fluids	74	103	84	146
Blood	26	78	9	48	Blood	35	41	56	81
Drugs	39	52	44	48	Drugs	57	108	118	237
Crime scene	37	0	9	0	Crime scene	18	0	123	0
Miscellaneous	9	13	7	17	Miscellaneous	7	14	6	11
<b>Total</b>	<b>348</b>	<b>1299</b>	<b>440</b>	<b>1807</b>	<b>Total</b>	<b>504</b>	<b>1893</b>	<b>886</b>	<b>2168</b>



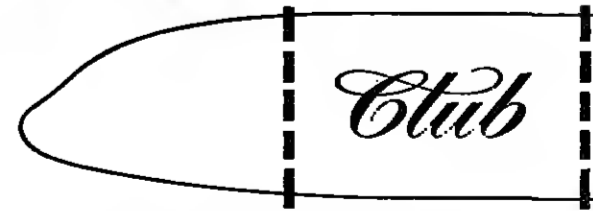
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# MIDDLE EAST

EEC envoy says after M.E. tour

## Soviets launch Mideast initiative based on all-party peace conference

By T. ...  
The Soviet Union has confirmed the initiative in the Middle East. Dr. van der Klaauw, president of the European Economic Community (EEC) Council of Ministers, told reporters in Cairo that the initiative is the Soviet initiative to hold an international conference to resolve the Middle East problem.

the Middle East. He said the discussions dealt with the Palestinian right to self-determination, the Jerusalem problem, security for all parties and Israeli withdrawal from occupied Arab territories.

Dr. van der Klaauw also said he would visit Israel where he hoped to meet with the West Bank leaders.

He said any European proposals would be formulated in "close cooperation with our main ally, the United States."

Mr. Ali, standing at his side, told reporters "we have the same opinions about peace in the Middle East and agreed that European efforts will be complementary to the Camp David accords."

Mr. Ali, in a speech during a dinner he gave to Dr. van der Klaauw, urged a more effective European role in the Middle East.

He said: "We believe that Europe should also take definite stands on the different issues of the Middle East, guided by the principles of justice and international law."

Referring to the Israeli settlement policy and the Jerusalem issue, Mr. Ali said a clear European stand conforming with international law would "surely create an atmosphere suitable for bringing peace to the region."

He also urged Europe, which he said had good relations with the Palestinians and Israel, to contribute in building up confidence between the two sides guided by the example set by Egypt and Israel through the normalisation of their relations.

## Israeli army discharges soldier who refused duty in West Bank

TEL AVIV, April 27 (A.P.) — The Israeli army Sunday discharged as "unsuitable" a 19-year-old private who became a minor cause celebre for deciding to go to jail rather than serve in occupied Arab territory.

Last month, after public pressure both here and from abroad, the military Chief of Staff, Lt. Gen. Rafael Eitan, commuted Gadi Elgazi's one-year sentence after he had served eight months in a military prison. The army said Elgazi was to be allowed to finish his regular tour of duty.

But Elgazi said that once he was out of jail, the army gave him the following ultimatum: either rejoin

his tank unit in the occupied West Bank or be discharged.

"I rejected both choices," Elgazi told the Associated Press by telephone Sunday. "Not serving my nation is also against my conscience."

In Israel, the dismissal could hurt his chances for future education or employment, because any man who does not complete the obligatory three-year duty, for whatever official reason, is open to criticism that he shirked his national duty.

During a military trial in January 1980, Elgazi cited his objection to the military government's policy of exiling Pal-

## Bahraini leader starts official visit to India

NEW DELHI, April 27 (R) — The Emir of Bahrain, Sheikh Isa bin Sulman Al Khalifa, arrived today on a four-day official visit to India. He praised India's "effective and influential" role as a leader of the Non-Aligned movement and said he was confident his talks with Indian Prime Minister Mrs. Indira Gandhi would produce positive results.

Indian officials said India and Bahrain were expected to sign an economic co-operation agreement during the visit. Indian sources said the two sides were expected to discuss the Soviet presence in Afghanistan, Western defence strategy in the region and Islamic and non-aligned efforts to end the Iran-Iraq war.

## Kuwait denounces Soviet aggression in Afghanistan

MOSCOW, April 27 (A.P.) — Kuwaiti Foreign Minister Sheikh Sabah Al Ahmed Al Sabah criticized the Soviet military intervention in Afghanistan during talks here last week with Soviet officials, informed sources said today.

The sources said the Kuwaiti official, who is also his country's deputy premier, told his Soviet hosts that "the Afghan people should be left to solve their problems by themselves."

It was not known how Soviet officials responded to the reported comments.

A communique issued after the Kuwaiti official's departure Saturday made no mention of the Afghan question. The communique was distributed by the official Soviet news agency TASS.

Kuwait and other Gulf states have strongly criticized the Soviet decision to send some 85,000 troops into Afghanistan, where guerrillas are fighting the pro-Soviet, Marxist regime.

After the two-day, official visit to Moscow, TASS said the two sides had come out against the establishment of military bases in the Gulf region.

The TASS report said the two

sides had condemned Israel's efforts to consolidate its position in territories captured during the 1967 war, and had denounced Israel's "unceasing aggression" against Lebanon.

They also came out for an international conference on the Middle East at which the Palestine Liberation Organisation would be given equal status with other parties, TASS said.

Kuwait is the only Arab government in the Gulf region to maintain an embassy in Moscow.

## Ian Gilmour meets Turks

ANKARA, April 27 (R) — British Deputy Foreign Minister Sir Ian Gilmour today conferred here with Turkish head of state Gen. Kenan Evren and other leaders and said his talks were most useful and interesting, official sources said. They said Sir Ian, who arrived for a four-day visit yesterday, also met Prime Minister Bulend Ulusu and Foreign Minister Ilter Turkmen.

It is the first visit to Turkey by a British cabinet minister since last September's military coup here.

# Arab visual talents spring back to life

EDITOR'S NOTE: Helen Khal is an American-Lebanese with long residence in Lebanon. Well known in the Middle East as an artist and critic, she returned to the U.S. in 1976 and is currently editorial consultant to the Jordan Information Bureau in Washington, D.C. Planned for publication this year is her book on women artists in Lebanon.

By Helen Khal

WASHINGTON — It was undeniably such a narrow view that prompted no less an authority in Robert Hughes, art critic at large, to end his otherwise splendid review of an Arab Islamic exhibition in 1975 with these words: "At a time when the visual arts of the Arab World appear to have sunk to brass ashtrays, silver hooks and oil-rich convertible kitsch, it is a pity to see what went before."

That Arab creativity, lay dormant for some centuries after the Golden Age of Islam, had spent its vitality is true. To presume that it is dead today can only be regarded as an uninformed and incorrect observation. Notwithstanding the ready production of "brass ashtrays," Arab visual talents are alive in this century very much as in any other.

In country after country, across that wide swath of the Arab world that stretches from Morocco to Iraq, painters and sculptors are producing with fresh energy, a contemporary art in high stylistic merit. Despite the easy availability of visual and media communication in our modern world, cultural exchange between West and East (or, more specifically, between "developed" and "developing" societies), has remained very much a one-way street. An unfortunate result is that contemporary art in the Arab world continues to suffer an undeserved anonymity.

The development of contemporary art in the Arab World began less than a hundred years ago and emerged as one of the major influences of the growing regional interests in the area. It

should be remembered that this art has no roots in Arab cultural heritage, that it originated in Europe and out of the Renaissance tradition whose concept of art and paths of expression were significantly different. For the Arab World, and for most other regions of the world which remained for long centuries in a similar cultural isolation, it is an adopted art form.

Imported from Europe, the art of painting and sculpture did not effectively penetrate Arab borders until the late 19th century, along with the advent of modern international communications and societal mobility. Until then, the Arab aesthetic experience had remained rooted in Islam, fed and determined by a civilisation in which art functioned as an integral and intimate expression of the society and which, in turn, through its abundant genius and at its height, produced some of mankind's most impressive cultural achievements.

As recently as 50 years ago, there were certainly no more than a few dozen painters and sculptors scattered through the entire Arab region. The easel art of Europe was little known, except in the palaces of the aristocracy or in the icons that adorned the scattered churches and monasteries of the area. After World War I and the subsequent sweep of foreign mandate control over many Arab countries, there occurred an accompanying invasion of foreign educational and cultural interests. In British, French, Italian and American mission schools, young Arab students were introduced to a new kind of "picturemaking"; they were taught to draw from nature, to produce portraits and landscapes, and the conversion to

modern art began.

Seeking to follow the path of Renaissance genius, the first Arab artists went off to Europe to study. There, they were instead confronted with the revolutionary forces of Impressionism, cubism, and abstraction. In 1910, when Picasso and Braque had already chopped up the figure into an almost unrecognisable jumble of planes and cubes, the Arab artist

however, before the Arab artist could try to speak on his own. He had to pass through the necessary age of imitation before he could begin to assert his own creative needs through these new, adopted art forms. Not until after World War II did the Arab artist acquire sufficient experience to lead him into a personal contemporary interpretation of his own socio-cultural roots.

rapidly towards that goal. The Iraqi government's encouragement and support of their efforts includes the publication of U.R., a bimonthly cultural magazine published by the Iraqi Cultural Centre in London, the only one of its kind in English.

This developmental story can be applied generally to each of the countries of the Arab World. Separately they have moved at a var-

specific stylistic trend in current Arab art, difficult to fit it into a national or ethnic label. The manner of art in this century has gone beyond the isolation of cultural or national borders; it has assumed an international form, with one language, one concept and one function. The Arab artist, like artists all over the world, is a member of this international community of art. He expresses himself in the current idioms of a universal visual language, using the same materials, employing the same wide gamut of styles, and seeking to convey his creative intention with the same intensity of vision as artists anywhere else. Well aware that art does not grow in a vacuum and that its heritage now is a universal legacy, Arab painters and sculptors develop, as all artists do today, from the historical baskets of modern art — figurative, abstract, impressionist, expressionist, surreal, minimal, pop, op, kinetic, etc. Out of these germinating seeds, they are forming their own unique contemporary expressions.

Readily apparent and definable in Arab art today is the reawakened creative spirit that is generating its energy. The singular human experience that is moulding the forms and modulating the colours. One can discern a common motivation feeding the vitality of this art. It is, in a word, the polarity of existence between man and machine, between the humanness of being and the soulless automation of a technological age. The dichotomy of this condition is being profoundly experienced in the Arab World, and it is in turn often expressed in its art.

Whether portrayed figuratively or in the abstract, the complexities of the human condition is a recurring theme. Compositionally, the work often expresses the contained energy and introspection of the eastern meditative spirit. Inherent in much of the imagery and symbols is a deep attachment to the earth and to man's roots in that earth. The lines, colours and textures convey not only the physical temperament of a particular land, but also relate the emotive experiences of joy or tragedy, of fear or dignity, that mark all lives.

Arabs artists do not find their inspiration in soup cans, steel buildings or concrete sidewalks; nor do they paint romantic desert landscapes. The essence of their vision lies rather in asserting the ide-

ntity of their human heritage, persistently enduring with all its God-given attributes.

To some sophisticated eyes much of contemporary Arab art may appear *deja vu* — they look for something different, more typically Arab. To this, one could reply that in this age of rapid transition, of turmoil and confusion, when certain essential values have been obscured, the Arab artist with fresh energy stubbornly

clings to old beliefs. His art strives for order, for that classical sense of beauty which proclaims the enduring humanity of man; his art reflects that Platonic vision of "absolute harmony as the sole remedy for the soul's bitterest pains." In this day of cynicism and despair, of man becoming machine, this message from the East, perhaps not new, is still a hopeful one.

(Arab Perspectives)



Aziz Amoura (Jordan)

was still an infant, still at the very edge of the matter. Young and curious, these eager pioneers wasted little time with a dying classicism and moved quickly into the more lively, though still comprehensible, adventure of Impressionism. And they came back to their capitals — to Baghdad, Beirut, Cairo, Damascus, Rabat — with spirits full of this new concept of art for art's sake.

It took two more generations.

Today, the artists, male and female, are many, and each country has its own art academies, its own museums, its own galleries. Children are introduced to art at an early age, and government institutes of art provide high level training, tuition-free. Modern art works are found in public squares, in homes, in business institutions, and in government buildings.

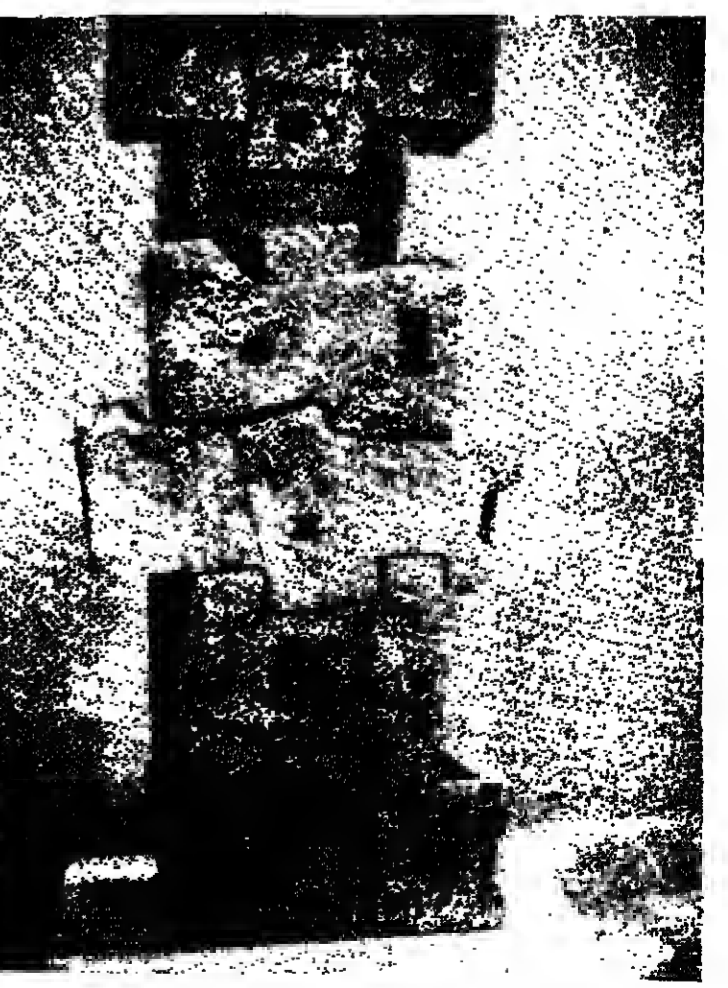
Many artists, supported by government grants, continue their training abroad in the art capitals of the world most return home to take up their vocation as professional artists, and some also become teachers to another generation of artists. Others remain abroad, in Europe, England and the U.S., determined to make their mark in the mainstream of international art. One such group of Iraqi artists, living and exhibiting in London during the past several years, has been moving

pace of growth; separately, their artists express the peculiarities of form and colour that convey the specific personality of form and colour that convey the specific personality of their land and national temperament. On the surface, these differences exist; yet basically, the cultural area is one. Closer observation reveals the underlying links of a common tradition, the deep imprint of similar social, cultural, religious and ethnic influences that provide the identifying structure of one people's art. Like a Persian carpet, the design may be an intricate composite of mosaic parts, but the whole remains one piece. (A parallel experience has developed on the wide continent of America, where although there is basic commonality, the art of California and New York shows distinct differences in creative motivation and style.)

It would be difficult to define a



Salah Abul Karim (Egypt)



Saloua Raouda Chouair (Lebanon)



bila Al Bassam (Saudi Arabia)



Neja Mahdaoui (Tunisia)



Walid Mougarbeh (Syria)

# ECONOMY

## Yamani: oil is overpriced

MADRID, April 27 (R) — Saudi Oil Minister Ahmad Zaki Yamani today pressed home his message to the rest of OPEC that he thinks crude oil is over-priced and that Saudi Arabia is engineering a glut to bring it down, but he declined to predict early success.

At a Madrid news conference, he said the Saudis had acted to boost their huge production this month, although a market surplus has already pushed spot, non-contract prices for Arabian light crude down to around the psychological barrier of \$35 a barrel.

Forecasting a further fall in spot prices, Sheikh Yamani said some Saudi crude hung on the market during March at a price of \$36. The Saudis therefore cut to \$34 and expected that as a result their output this month would return to a record 10.3 million barrels per day (b/d).

Oil industry analysts said the Saudi move would add to the difficulties of price "hawks" in OPEC (the Organisation of Petroleum Exporting Countries) whose market share is threatened by Saudi over-production at low

prices and from whom Sheikh Yamani has said he looks for price cuts.

Saudi Arabia still charges only \$32 a barrel for most of its production, with most of the other 12 OPEC members aligning their rates on a base price of \$36.

A recession-led slump in world oil demand has pared total OPEC output to under 25 million b/d compared with 32 million in 1979, yet spot prices are still declining as buyers have walked away from some Nigerian and Kuwaiti high-priced oil.

## Saudi GDP triples in 1970s

RIYADH, April 27 (A.P.) — Soaring oil prices during the 1970s helped Saudi Arabia nearly triple its Gross Domestic Product measured in real terms.

But the kingdom's non-oil sector outperformed the oil sector, according to the annual report of the Saudi Arabian Monetary Agency released yesterday. The decade covered by the kingdom's first and second five-year plans ending in mid-1981, saw non-oil real GDP soar to more than 3.5 times its 1970 level. Real per capita income more than doubled during the period.

Surging oil prices have enabled this sparsely populated kingdom, which controls more than 25 per cent of the non-communist

world's oil reserves, to embark on ambitious development plans. The same report makes clear that development spending will continue to grow during the coming years.

Typical of the figures released in the report are the ones on government spending, which grew from \$1.5 billion in 1970 to \$56.5 billion in 1980. That is expected to rise to \$73.5 billion in the current fiscal year.

The spending has enabled Saudi Arabia to provide vastly improved free health care and education, as well as improved water, sewage and electricity services to its citizens.

The number of students in Saudi schools and universities tri-

pled during the 1970s, growing from 500,000 to 1.5 million as the government seeks to eradicate illiteracy and develop the skilled manpower that will staff sophisticated new industrial plants.

The report notes that the government has built 16 new seawater desalination plants to provide 47.3 million gallons of freshwater a day, while generating up to 331 megawatts of electricity.

The government acknowledged in the report that the rapid development built up intense inflationary pressures during the 1970s, but said policies of fiscal restraint, improved transportation and subsidies on essential items have brought inflation under control.

## ECONOMIC NEWS BRIEFS

### Lufthansa voted best for business travel

LONDON, April 27 (R) — The German airline Lufthansa has been voted the best for business travel in an international poll of executives from nearly 1,200 companies.

Swissair came second in the survey by the magazine, Annual Investment File, which also gave top marks for airports to Frankfurt International with Paris's Charles de Gaulle airport runner-up.

About 77.6 per cent of the businessmen polled did not think supersonic travel by Concorde was worth the extra cost, but a new business class introduced by some airlines was favoured by 41 per cent.

added that it would be irresponsible to resume construction without knowing the full extent of damage caused to it in the Iran-Iraq war.

Japanese newspapers have said that bombing by Iraqi planes had caused some \$800 million worth of damage.

Mitsui said last week that present circumstances made continuation of the project impossible and that it had decided to withhold further financing of the construction work, which was seen as a sign that the Japanese were ready to pull out.

### World Bank approves \$15.6 loan to Syria

WASHINGTON, April 27 (A.P.) — The World Bank announced today the approval of a \$15.6 million loan to Syria for an education project.

The project is designed to improve the quality of training and expand the facilities for providing the construction industry and the agriculture and health sectors with better trained workers.

### Japan approves \$3.6b joint venture with Iran

TOKYO, April 27 (R) — The Japanese government said today it continued to support a \$3.6 billion joint venture with Iran to build a petrochemical complex at Bandar Khomeini.

International Trade and Industry Minister Rokusuke Tanaka told parliament that Japan's Mitsui Industrial Group had not consulted him about its decision last week to withhold further funding of the 85 per cent completed project.

"Neither have I approved it," he said.

Mr. Tanaka said there was no change in the government's policy of promoting the project but

### Libya buys giant oil tanker

BEIRUT, April 27 (R) — Libya has added what it described as the biggest oil tanker in Africa to its merchant fleet, the Libyan news agency JANA said.

It did not give the vessel's tonnage but said it could carry about 1.4 million barrels of oil.

## LONDON EXCHANGE RATES

LONDON, April 27 (R) — Following are the buying and selling rates leading world currencies and gold against the dollar at the close of trading the London foreign exchange and bullion markets today.

One sterling	2.1630/40	U.S. dollar
One U.S. dollar	1.1929/32	Canadian dollar
	2.1802/12	West German marks
	2.4200/20	Dutch guilders
	1.9885/1.9900	Swiss francs
	5.1650/80	French francs
	35.47/50	Belgian francs
	1086.00/1087.00	Italian lire
	211.80/212.00	Japanese yen
	4.7000/7500	Swedish crowns
	5.5090/5100	Norwegian crowns
	6.8615/30	Danish crowns
One ounce of gold	483.50/485.00	U.S. dollars

## LONDON STOCK MARKET

LONDON, April 27 (R) — Equities generally finished mixed, though the oil sector was weak throughout, and government bonds drifted in quiet trading, dealers said. At 1500 the FT. index was down 0.9 at 586.4.

Share prices opened lower across the board but a mid-morning rally attempt steadied the market and most sectors consolidated the gains of last week, dealers added. Oil shares were the exception following adverse weekend press comment, BP and Shell falling 14p and 10p respectively. British Aerospace edged 8p down at 224 and Vickers shed 2p but Tube and Hawker Siddeley gained 2p and 4p respectively.

U.S. and Canadian were generally higher.

Government bonds continued to attract little interest and prices at the longer end drifted 3/4 point lower, dealers said.

Leading banks were between 3p and 6p lower but discount houses were firm following results from Gerrard and National which added 10p to 31K Dunlop added 4p while Bar Industries fell 3p on small turnover ahead of Wednesday's results, which are expected to be flat, analysts said. Reax International was unchanged on balance after announcing the closure of two paper-making machines with the loss of 150 jobs.

Gold shares drifted during the afternoon reflecting the weaker bullion price.

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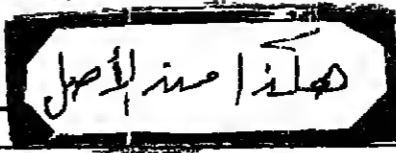
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Handwritten signature or note at the bottom of the marketplace section.



# Making nature your partner

By Clyde Sanger

It really is to be clean water... for all by 1990, the... countries have to find... technologies that are both... and economical. This search... has led some of the... to look at the problems... from a different point of view.

try to improve those home conditions. He believes with quiet fervency in "making nature your partner, studying it and making use of natural forces". These forces, he says, are very dependable and technology using such basic principles requires the minimum of maintenance and attention.

An improved four-metre wheel with two sets of three coils each can pump 90,000 litres a day into a storage tank eight metres higher than the level of the canal. The pump is cheap to build, and the cost savings compared to a diesel-powered pump are considerable.

Dr. Morgan says much larger savings can come from bigger wheels placed across the two-metre-wide irrigation canals in the Zimbabwean lowland, where a good deal of African land resettlement may well be concentrated. He speculates that a wheel that might cost \$1,000 to erect, could pump perhaps one million litres a day.

His main interest now is in water purification and storage. Noting that the ancients often stored water in copper vessels and seem to have avoided gastroenteritis, he has experimented by passing the tank water down a six metre length of copper tubing, and also in another experiment through copper ore. He found that a slow drip through the tubing -- enough to provide drinking water for a family at 30 litres a day -- made it free of bacteria.

He has also applied the natural biological process that occurs when water passes slowly over sandy riverbeds and the pathogenic bacteria are destroyed during the filtering. Very polluted water which he passed slowly through sand and gravel in a 200 litre drum showed dramatic drops in the coliform count. Even more impressive are results from his larger sand filters. One of them con-

tain 10 cubic metres of sand held inside a large plastic bag, produces 3600 litres of pure water a day.

His storage experiments involve taking the canal water through four large tanks -- the first three for purification, the last for storage -- with connecting pipes at different levels. He points out that the highest quality of water is near the top of a tank, although it is usually tapped from the bottom. Normally a modest man, he says of this experiment: "It should be a winner. It is the ultimate for water in rural areas."

Dr. Morgan already has several established winners. One of the most popular is his "swing pump" -- a way of using the energy of children at play to raise water. He has adapted a conventional lift pump so that it is worked by children on a playground swing. A chain coiled round the limit of a swing rises and falls as a child swings to and fro.

Another success is his model of a ventilated privy, properly called a Bioflu, but also known as "cottonblossom" because its tall chimney resembles the smokestack of a Mississippi river boat! He developed this toilet for rural areas where little water is available, but it is anyway more dependable than most waterborne systems.

He had to overcome the two main disadvantages of a pit latrine: being the source of offensive odours and a breeding place for flies. Dr. Morgan decided once again to use natural forces -- in this case, the fresh wind and sunlight.

The toilet has no door, and no covering over the hole. There is another aperture, leading up a 15 centimetre diameter vent pipe, about three metres high. He found that by placing the pipe on the sunny side of the toilet and painting it black, it absorbed most heat, and the wind across its top combined to produce a good upward draught.

As for flies, after they enter the pit through the uncovered hole, they are attracted towards the sunlight at the top of the vent pipe, only to find their exit blocked by a fibreglass screen. Eventually they expire there, and drop back into the pit.

A corrugated iron mould is normally used to make up to 100 of these cylindrical units out of cement stiffened with chickenwire. Total cost, with pipe and a plaster-mix chickenwire roof, is about \$50. They can also be made with bricks. Health assistants have been building them in thousands in tribal areas.

Dr. Peter Morgan has sought no patents for any of his inventions, and has done his best to stop anyone else patenting them by publishing details at an early stage.

(DRC Feature)

# Tube babies 'spooky'

By Peter O'Loughlin

SYDNEY, Australia -- Australian scientists engaged in "test tube baby" research have frozen about a dozen human embryos that they believe could be thawed and implanted in infertile women to produce healthy children.

The technique, which has not yet resulted in a pregnancy, raises host of legal and ethical questions that would have to be resolved before it could become widespread, according to Dr. Carl Wood, the leader of the scientific team at the Queen Victoria Medical Centre.

"The freezing of embryos complicates reproduction to a degree which I would not be prepared to sanction before the community and legal profession examine it... I think it's frightening. I am concerned about the ethics of it," Dr. Wood said. Dr. Wood also added that the technique might even make it possible to fertilize an egg now, freeze it and return it to the womb centuries later. He said he did not know of any scientists working on such a thing and would oppose it if he did. "I can't see any

purpose in doing that," he said. Two frozen embryos were thawed and resumed growing outside the womb, scientists at the medical centre told the Associated Press. The embryos were implanted in their mothers' wombs but failed to result in pregnancy, the scientists said. Nevertheless, they said, that does not indicate the technique is a failure since the success rate for implantation of embryos that have not been frozen is only about five per cent.

The team has already been responsible for three of the world's five known "test tube babies," or children born after being conceived outside the womb. Two more "test tube babies" have been born in Britain, where the technique was invented. There was also a report of a birth in India, but it has not been confirmed scientifically.

"Test tube baby" research was developed to treat women who could not have children because their fallopian tubes were blocked. The fallopian tubes are the pathways by which the egg travels from the ovary to the uterus, where it is fertilized. Scientists extract one or more eggs from the ovary, fertilize them with the father's sperm in a test tube and then return the fertilized egg to the womb. Dr. Wood and his colleagues have frozen about 12 human embryos in liquid nitrogen

when, for various reasons, they could not be implanted in their mothers after being fertilized.

"If we couldn't freeze it (the embryo), we'd have to let it die," Dr. Wood said. The fertilized egg can live only about a day and a half outside the womb. The scientists believed freezing eggs "the most attractive alternative to discarding them," he said. "Freezing the embryos is the most attractive alternative ethically for research into infertility. But if the practice is perfected -- and it is not our major interest -- then serious problems arise," Dr. Wood said. Future problems could include the possibility of the sale of embryos by unscrupulous people to infertile couples, he said.

He said governments should control experimentation in this field until the legal, ethical, social and religious implications were examined. The hospital's own work has been approved by its ethics committee, he said.

Dr. Wood said he had discussed it with many people and found many of them thought that freezing embryos was "spooky."

"They see it as too close to Aldous Huxley," Dr. Wood said, referring to the author who wrote the novel "Brave New World" about a future society where people were bred in test tubes for specific tasks.

(Associated Press)

# Bavarian airbag device proves avalanche lifesaver



MUNICH -- The avalanche airbag, invented by Bavarian forester Joseph Ehenester, hit the headlines three years ago. An inflatable ball made of PVC-clad nylon fabric, it keeps skiers and mountaineers on the surface when they are engulfed in avalanches.

Two versions, a backpack and a pocket model, are available. Complete with ripcord and compressed air cartridge, the bag inflates in three seconds flat. It has proved its worth in the south of the Federal Republic of Germany, in Switzerland and in Canada. (Photo: DaD/A.P.)

# GOREN BRIDGE

BY CHARLES H. GOREN  
©1981 by Chicago Tribune

DEAR MR. GOREN  
Q.—In a game the other night, I held this combination:

Dummy  
A J 8  
Declarer  
K 9 6 3 2

I lost two trump tricks and, as a result, went down one. Is there any way to guarantee no more than one loser in the suit?—R.S.L., Detroit Mich.

(This question has been awarded the weekly prize.)  
A.—If you have plenty of entries to the two hands, it can be managed. The safety play is to start the suit by cashing the ace. When both defenders follow suit, cross to declarer's hand and lead a low card toward the jack. If West produces the queen, your problem is solved. If West follows with a low card, insert the jack. Should this lose to the queen, that means there is only one more trump outstanding, and you can draw it with the king. If the jack wins and East follows, West has just allowed your "safety play" to pick up the trumps without losing a trick. If East shows out, lead a trump to the king and West's original holding of Q-10-x-x is limited to one trump trick.

Now, let's consider those cases where West fails to follow to the second lead of the suit. Again you play the jack from dummy. After East wins the queen and exits, you get back to dummy and lead the remaining trump, taking the marked finesse against East's ten. Again you lose only one trick.  
Q.—In a duplicate game the other night, we had what I thought was a rather strange ruling. I made an insufficient bid, and when asked by the director to correct it, I substituted a pass. When it came time for my partner to make the opening lead, the director told declarer that he could demand the lead of a specific suit. I have heard of a specific suit being barred, but I have never heard of one being demanded. Declarer's choice of suit forced my partner to lead away from his king into declarer's ace-queen tenace, and as a result they made a contract that had to go down otherwise. Was the ruling correct, and isn't the penalty excessive?—B. Loman, Los Angeles, Calif.

A.—I hope that, when he was called, the director explained the options. If so, I can only presume that your attention wandered. The director's interpretation of the Laws was correct, and he should have explained it before you corrected your bid. The Law states:  
"If the call substituted is (c) a pass, (penalty) the offender's partner must pass whenever it is his turn to call; and if the offender's partner is to make the opening lead, declarer may either (i) require the offender's partner to lead a specified suit, or (ii) prohibit the offender's partner from leading a specified suit."  
As to the severity of the penalty, that is difficult to judge. In your case, it resulted in giving declarer an unmakeable contract. At other times, it might have had no effect. There is no doubt that an insufficient bid is a serious transgression—offender's partner receives so much illicit information that it could alter the whole course of the defense.

# THE BETTER HALF



"Yes, 21 percent interest is high, but I have to eat, too. More caviar, André."

# THE Daily Crossword

ACROSS  
1 Abrasive  
6 Ark units  
10 "Alt"  
That --"  
14 The South  
15 Vagrant  
16 Helm  
17 Chesters  
18 Banquet  
20 Mal de --  
21 Bay of  
Jamaica  
23 Attention-getter  
24 Like summer tea  
26 Bloka  
28 Rising var.  
32 Bus' last stop  
36 Practice boxing  
37 Fit out  
for action  
39 -- majesty  
40 So long  
41 Smooth-spoken  
42 Niche  
43 Agenda  
44 AL player  
45 Battery unit  
46 Varnish  
48 Precedent-setters  
50 Torpor  
52 Broadway great  
53 Lawyer's charge  
56 Reveals  
59 Boxscore entry  
62 Persistent preoccupation  
64 Was skit  
65 City on the Tiber  
67 Just so  
68 Clean off  
69 Hemline length  
70 Ms Baxter  
71 Makes an impression  
13 Enthusiasm  
15 "The -- Not Taken"  
22 Most singular  
25 Of porcelain  
27 Louisiana's bird  
28 Moving  
29 Torrent  
30 Horsemanship  
31 Renoir's cloud  
33 Unimaginative  
34 " -- Mio"  
35 Has effect  
38 With archness  
47 Cabbage tarts  
49 Cantankerous  
51 Hostess  
Perte  
53 Branch off  
54 Dusky  
55 Saftinger girl  
57 Certain horse  
58 Pot increment  
60 A-one  
61 March date  
63 Shoe width  
65 Reatn letters

# Andy Capp



YOU KNOW WHAT SURPRISES ME?  
I'M SURPRISED THAT YOU DIDN'T FALL IN LOVE WITH ME THE VERY FIRST TIME YOU SAW ME...



I DON'T KNOW WHAT CAME OVER ME, PERCY...  
I KNOW HOW IT IS, MATE



HE HAS A SPLIT PERSONALITY -- AND I HATE BOTH OF 'EM

# JUMBLE

Unscramble these four Jumbles, one letter to each square, to form four ordinary words.  
RINBY  
SIRUV  
GLUNOE  
NESSUC  
Now arrange the circled letters to form the surprise answer, as suggested by the above cartoon.  
Print answer here:  (Answers Monday)  
Yesterday's Jumbles: QUEST RAVEN ENMITY LIUOR  
Answer: What the construction foreman got from the mason -- "MOANS"

# Mutt 'n' Jeff



MUTT, SINCE YOU SAID I WORK YOU LIKE A DOG, I HAVE A BIG SURPRISE FOR YOU!  
I'M GOING TO GIVE YOU THAT RAISE YOU ASKED FOR!  
THANKS LOADS BOSS!

